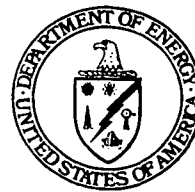




6-104.3

**Department of Energy**

**Ohio Field Office  
Fernald Area Office**  
P. O. Box 538705  
Cincinnati, Ohio 45253-8705  
(513) 648-3155



683

**APR 17 1997**

**DOE-0828-97**

**Mr. James A. Saric, Remedial Project Director  
U.S. Environmental Protection Agency  
Region V-SRF-5J  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590**

**Mr. Tom Schneider, Project Manager  
Ohio Environmental Protection Agency  
401 East 5th Street  
Dayton, Ohio 45402-2911**

**Dear Mr. Saric and Mr. Schneider:**

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT MARCH 1 THROUGH MARCH 31, 1997,  
AND QUARTERLY REPORT JANUARY 1 THROUGH MARCH 31, 1997**

**This letter transmits the amended Consent Agreement Monthly Report for the period March 1 through March 31, 1997, and Quarterly Report that describes the activities accomplished January 1 through March 31, 1997. The monthly and quarterly reports are formatted to reflect the proposal presented in the Letter, DOE-0395-96, J. Reising to J. A. Saric and T. Schneider, "Phase VII Removal Actions and Reporting Requirements Under the FEMP Legal Agreements," dated January 16, 1996, and agreed to by U.S. Environmental Protection Agency (U.S. EPA) and Ohio Environmental Protection Agency (OEPA). In addition, this quarterly report includes information requested by the U.S. EPA concerning the latest status of the Fernald Environmental Management Project's (FEMP) removal actions.**

**Sincerely,**

**Johnny W. Reising  
Fernald Remedial Action  
Project Manager**

**Enclosure: As Stated**

## cc w/enc:

N. Hallein, EM-42, CLOV  
R. Beaumier, TPSS/DERR, OEPA-Columbus  
G. Jablonowski, USEPA-V, 5HRE-8J  
R. Geiger, PRC  
D. Carr, FDF/9  
T. Hagen, FDF/65-2  
AR Coordinator/78

## cc w/o enc:

F. Bell, ATSDR  
D. S. Ward, GeoTrans  
J. Harmon, FDF/90  
B. Irvine, FDF/65-2  
C. Little, FDF/2  
T. Walsh, FDF/65-2  
EDC, FDF/52-7

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT MARCH 1 - 31, 1997 AND QUARTERLY  
REPORT JANUARY 1 THROUGH MARCH 31, 1997 INCLUDING EFFLUENT RADIATION  
REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

**Introduction**

This report describes actions at the Fernald Environmental Management Project (FEMP) from January 1 through March 31, 1997. The monthly and quarterly reports have been revised to reflect the proposal presented in the letter, DOE-0395-96, J. Reising to J.A. Saric and T. Schneider, "Phase VII Removal Actions and Reporting Requirements under the FEMP Legal Agreements", dated January 16, 1996, and agreed to by USEPA and OEPA.

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT MARCH 1 - 31, 1997 AND QUARTERLY  
REPORT JANUARY 1 THROUGH MARCH 31, 1997 INCLUDING EFFLUENT RADIATION  
REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

**OPERABLE UNIT 1**

January 1997

- Enforceable Milestones Completed
  - Submitted Final OU1 Remedial Action Work Plan (RAWP) to Agencies on January 3, 1997
- Major Work Initiated/Completed
  - Issued ARASA Capital Lease Request for Proposal (RFP) to approved bidders on January 31, 1997
  - Mobilized on-site rail subcontractor
  - Initiated rail construction in north railyard
  - Continued to pursue resolution of outstanding CSXT issues on Okeana Trestle Branch Line Upgrade
  - Completed hook-up of storm water collection basin to bio-surge lagoon

February 1997

- Enforceable Milestones Completed
  - None
- Major Work Initiated/Completed
  - Issued CSXT contract on Okeana Trestle Branch Line Upgrade February 13, 1997
  - Held ARASA pre-proposal conference February 19 and 20, 1997
  - Transmitted first responses to offerors questions on ARASA RFP February 25 and 27, 1997
  - Issued three amendments to the ARASA RFP to date
  - Continued north railyard construction
  - Initiated modifications to WPRAP north access road
  - Initiated preparation of the Transportation Plan, a Remedial Action Work Plan (RAWP) deliverable

March 1997

- Enforceable Milestones Completed
  - None

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT MARCH 1 - 31, 1997 AND QUARTERLY  
REPORT JANUARY 1 THROUGH MARCH 31, 1997 INCLUDING EFFLUENT RADIATION  
REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

- Major Work Initiated/Completed
  - Continued to respond to offerors questions on ARASA RFP
  - Extended due date for receipt of ARASA Proposals to April 4, 1997
  - Continued north railyard construction
  - Continued modifications to WPRAP north access road
  - Continued preparation of "Pyrophoricity Potential of the FEMP Waste Pits" report
  - Submitted "Waste Profile Form Outline" to DOE-OH for review
  - Continued development of the Transportation Plan
  - Continued development of specification for procurement of 135 railcars

**April 1997 (Anticipated)**

- Enforceable Milestones
  - None
- Major Work to be Initiated/Completed
  - Begin evaluation of ARASA proposals
  - Continue north railyard construction
  - Continue development of the Transportation Plan, a Remedial Action Work Plan (RAWP) deliverable
  - Complete "Pyrophoricity Potential of the FEMP Waste Pits" report
  - Submit specification for procurement of 135 railcars to DOE for review and approval
  - Incorporate DOE-OH comments to "Waste Profile Form Outline" and submit to Envirocare for comment
  - Start off-site trestle construction activities

**OPERABLE UNIT 2**

**January 1997**

- Enforceable Milestones Completed
  - On-Site Disposal Facility (OSDF)
  - None

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT MARCH 1 - 31, 1997 AND QUARTERLY  
REPORT JANUARY 1 THROUGH MARCH 31, 1997 INCLUDING EFFLUENT RADIATION  
REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

(Note that DOE made a request to the Agency that the January 31, 1997, milestones for submittal of the OSDF Groundwater Monitoring Plan and Air Monitoring Plan to be extended; the new submittal date will be determined in a meeting with the Agencies on February 10, 1997. Additionally it has been proposed that the Air Monitoring Plan be incorporated into the IEMP and canceling this air monitoring plan requirement.)

- Soil Characterization & Excavation Project (SCEP)
  - None
- Major Work Initiated/Completed
  - OSDF
    - Began installation of four Type 2 groundwater monitoring wells for Cells 1 and 2 of the OSDF on January 7, 1997; the two eastern wells were installed prior to January 28, 1997
  - SCEP
    - Comments received from DOE and other reviewers on the 90% Design Package for the OU2 Southern Waste Units (Southfield, Active and Inactive Flyash Pile) were being addressed.

**February 1997**

- Enforceable Milestones Completed
  - On-Site Disposal Facility (OSDF)
    - None
  - Soil Characterization & Excavation Project (SCEP)
    - None
- Major Work Initiated/Completed
  - OSDF
    - Installed the third Type 2 groundwater monitoring well for Cells 1 and 2 of the OSDF (note that the fourth well will be installed in May 1997)
    - Barrett Paving (the Haul Road contractor) began installation of erosion control structures on the southern side of the future Haul Road
  - SCEP
    - Work proceeded on the Integrated Remedial Design Package for the Operable Unit 2 Waste Units; completion of this package is dependent of successful completion of the OU5 Area 1, Phase I Certification Report

**March 1997**

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT MARCH 1 - 31, 1997 AND QUARTERLY  
REPORT JANUARY 1 THROUGH MARCH 31, 1997 INCLUDING EFFLUENT RADIATION  
REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

- Enforceable Milestones Completed
  - On-Site Disposal Facility (OSDF)
    - Submitted OSDF Groundwater/Leak Detection and Leachate Monitoring Plan to Agencies on March 7, 1997
  - Soil Characterization & Excavation Project (SCEP)
    - None

(Note: The March 14, 1997, milestone for submittal of the Area 2, Phase I Integrated Remedial Design Package [also known as the Southern Waste Units RAWP] has been extended to July 14, 1997; refer to the explanatory note regarding OU5's March Enforceable Milestones for clarification and information pertaining to the request for extension and USEPA's response.)

- Major Work Initiated/Completed
  - OSDF
    - Barrett Paving (the Haul Road contractor) completed clearing and grubbing for construction of the Haul Road
  - SCEP
    - Continued work on the Integrated Remedial Design Package for the Operable Unit Waste Units; completion of this package is dependent on successful completion of the OU5 Area 1, Phase I Certification Report

**April 1997 (Anticipated)**

- Enforceable Milestones
  - OSDF
    - Milestone requiring construction of the OSDF to commence by April 30, 1997 (as found in the OU2 RAWP) was met on January 27, 1997, when Notice to Proceed was given to Village Building Services, Inc. to begin work on the OSDF Leachate Conveyance System, an integral component of the OSDF design
  - SCEP
    - None
- Major Work to be Initiated/Completed
  - OSDF
    - Begin field work on construction of the OSDF Leachate Conveyance System; telephone/electric poles will be installed in preparation for relocation of the fiber optic cables which are currently buried in the system's future path
  - SCEP
    - None

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT MARCH 1 - 31, 1997 AND QUARTERLY  
REPORT JANUARY 1 THROUGH MARCH 31, 1997 INCLUDING EFFLUENT RADIATION  
REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

**OPERABLE UNIT 3**

January 1997

- Enforceable Milestones Completed
  - Submitted OU3 Integrated Remedial Action Thorium/Plant 9 Complex Implementation Plan for Above-Grade Decontamination and Dismantlement to Agencies January 2, 1997
  - Submitted Building 4A Remediation Report/Project Closure Report to Agencies January 16, 1997
- Major Work Initiated/Completed
  - Safe Shutdown
    - Continued holdup material removal in Plant 5
    - Continued line draining in Plant 2/3
    - Continued holdup material removal in Plant 2/3
  - D&D
    - Continued Plant 1 activities; removing exterior transite
    - Initiated review of proposals from prospective vendors for decontamination and demolition of Boiler Plant/Water Plant Complex

February 1997

- Enforceable Milestones Completed
  - Submitted responses to comments from Agencies on Boiler Plant/Water Plant Implementation Plan on February 14, 1997
  - Awarded contract for decontamination and dismantlement of the Boiler Plant/Water Plant Complex on February 27, 1997
- Major Work Initiated/Completed
  - Safe Shutdown
    - Continued holdup material removal in Plant 5
    - Continued line draining in Plant 2/3
    - Continued holdup material removal in Plant 2/3
  - D&D
    - Successfully imploded Plant 1 on February 22, 1997



688

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT MARCH 1 - 31, 1997 AND QUARTERLY  
REPORT JANUARY 1 THROUGH MARCH 31, 1997 INCLUDING EFFLUENT RADIATION  
REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

March 1997

- Enforceable Milestones Completed
  - Issued Notice to Proceed to subcontractor for Boiler Plant/Water Plant decontamination and dismantlement on March 7, 1997
  - Submitted comment responses and revisions to the OU3 Integrated Remedial Design/Remedial Action Work Plan on March 7, 1997
  - Submitted comment responses and revised Project Completion Report for the High and Low Nitrate Tanks Decontamination and Dismantlement on March 27, 1997
  - Submitted comment responses and revised Project completion Report for the Building 4 Decontamination and Dismantlement on March 27, 1997
- Major Work Initiated/Completed
  - Safe Shutdown
    - Completed holdup material removal in Plant 5 on March 14, 1997
    - Continued line draining and holdup material removal in Plant 2/3
    - Continued planning for safe shutdown activities in Plants 6 and 8
  - D&D
    - Continued activities in Boiler Plant/Water Plant

April 1997 (Anticipated)

- Enforceable Milestones
  - Submit comment responses to Thorium/Plant 9 Implementation Plan by April 7, 1997
- Major Work to be Initiated/Completed
  - Safe Shutdown
    - Continue line draining and holdup material removal in Plant 2/3
  - D&D
    - Continue activities in Boiler Plant/Water Plant

**OPERABLE UNIT 4**

January 1997

- Enforceable Milestones Completed
  - None

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT MARCH 1 - 31, 1997 AND QUARTERLY  
REPORT JANUARY 1 THROUGH MARCH 31, 1997 INCLUDING EFFLUENT RADIATION  
REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

(Note that the January 2, 1997, milestone for the Radon Treatment System Title I/II 90% Pre-Final Design was not met; this milestone was among those subject to informal dispute resolution as documented in a letter from Johnny Reising, DOE-FEMP, to James Saric, USEPA, dated October 9, 1996.)

- Major Work Initiated/Completed
  - Vitrification Pilot Plant (VITPP)
    - Continued activities of the three incident evaluation teams created to determine the root cause of the December 26, 1997, VITPP melter incident and to estimate the impact the incident may have on the Silos Project path forward; the three teams are:
      - Incident Analysis (determine root cause and evaluate lessons learned)
      - Safety Review (evaluate the appropriateness of the response to the incident in terms of safety and procedures)
      - Data Analysis and Path Forward (evaluate existing OU4 test data to determine a path forward for the remaining testing program and the VITPP overall)
  - Silo 3 Remedial Alternative
    - Began resolving comments from the Agencies on the Draft Final Evaluation of Silo 3 Residues Alternatives
    - Received expressions of interest from qualified vendors for remediation of Silo 3 residues; evaluated responses to determine which vendors would meet the necessary requirements, with the intention of eventually providing a final copy of the Request for Proposal to this shortened list of qualified vendors
  - Overall OU4 Issues
    - Conducted third meeting of the Silos Project Independent Review Team (IRT), on January 21-23, 1997

**February 1997**

- Enforceable Milestones Completed
  - None
- Major Work Initiated/Completed
  - Vitrification Pilot Plant (VITPP)
    - Continued activities of the three incident evaluation teams (Incident Analysis, Safety Review, and Data Analysis/Path Forward) created to determine the root cause of the December 26, 1997, VITPP melter failure and to estimate its impact on the project
    - Issued Final VITPP Incident Evaluation Report (combining the reports of all three evaluation teams) on February 28, 1997

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT MARCH 1 - 31, 1997 AND QUARTERLY  
REPORT JANUARY 1 THROUGH MARCH 31, 1997 INCLUDING EFFLUENT RADIATION  
REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

- Silo 3 Remedial Alternative
  - Continued resolving comments from the Agencies on the Draft Final Evaluation of Silo 3 Alternatives
- Overall OU4 Issues
  - Met with the Waste Management Committee of the Fernald Citizens Task Force (FCTF) concerning Silos Project issues on February 5, 1997
  - Met with the Transportation Committee of the FCTF concerning issues related to intermodal transport of Fernald wastes on February 6, 1997
  - Conducted two more sessions with the Silos Project Independent Review Team (IRT) on February 11-13 and February 25-28, 1997
  - Assisted in sponsoring two Public Availability Sessions, held on February 12 and February 26, 1997; these meetings were designed to give the public an opportunity to interface with the IRT and provide specific input toward their recommendations

**March 1997**

- Enforceable Milestones Completed
  - None
- Major Work Initiated/Completed
  - Vitrification Pilot Plant (VITPP)
    - Completed melter inspection activities and clean up of the melter area
  - Silo 3 Remedial Alternative
    - Continued resolving comments from the Agencies on the Draft Final Silo 3 Alternatives Evaluation Report
    - Met with the Agencies on March 24, 1997, to discuss the OU4 path forward, including the implementation of an alternate stabilization/solidification technology for treating of Silo 3 residues
  - Overall OU4 Issues
    - Initiated a Value Engineering Evaluation of the Silos Project on March 10, 1997, to be performed by a team of engineers and cost estimators from the Army Corps of Engineers
    - Met with the Waste Management Committee of the Fernald Citizens Task Force (FCTF) on March 12, 1997, to discuss the Silos Project Path Forward
    - Attended the full FCTF meeting on March 15, 1997, to provide support and answer questions as the Task Force continued to review the Silos Project Path Forward
    - Continued to assist the Independent Review Team (IRT) as necessary in completion of their Final Report

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT MARCH 1 - 31, 1997 AND QUARTERLY  
REPORT JANUARY 1 THROUGH MARCH 31, 1997 INCLUDING EFFLUENT RADIATION  
REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

April 1997 (Anticipated)

- Enforceable Milestones
  - None
- Major Work to be Initiated/Completed
  - Issue formal response letter to Agency comments on the Draft Final Silo 3 Alternatives Evaluation Report
  - Final version of the IRT Report is expected to be completed in April
  - FEMP and USEPA has agreed to conclude the informal dispute resolution progress regarding missed OU4 milestones by May 15, 1997. Preparation of a draft settlement agreement, along with actions to finalize a path forward with input from stakeholders will be ongoing during April. An Informal Dispute Resolution meeting is scheduled for April 16, 1997

**OPERABLE UNIT 5**

January 1997

- Enforceable Milestones Completed
  - Aquifer Restoration Project (ARP)/Advanced Waste Water Treatment (AWWT)
    - Transmitted response-to-comments document on the South Field Injection Test Phase II Report to Agencies on January 7, 1997
    - Transmitted response-to-comments document and the Draft Final Project Specific Plan for the Restoration Area Verification Sampling Program to Agencies on January 14, 1997
    - Response-to-comments document for the Integrated Environmental Monitoring Plan to be submitted to Agencies by a date to be determined at a meeting with them on February 10, 1997 (due date revised from January 31, 1997, to address Agency concerns and strategy for air monitoring)
    - Response-to-comments document for the Baseline Remedial Strategy Report to be submitted to Agencies on April 7, 1997 (At the request of DOE to USEPA, the due date was revised from January 16, 1997 to address ongoing geoprobe field studies and requirements for remodeling the plume)
    - Response-to-comments document for the RAWP for Aquifer Restoration to be submitted to Agencies on April 7, 1997 (due date revised from January 31, 1997, as requested by Ohio EPA, to coincide with extended deadline for the Baseline Remedial Strategy Report listed above)
  - SCEP
    - None

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT MARCH 1 - 31, 1997 AND QUARTERLY  
REPORT JANUARY 1 THROUGH MARCH 31, 1997 INCLUDING EFFLUENT RADIATION  
REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

- Major Work Initiated/Completed
  - ARP/AWWT
    - Completed startup and initiated continuous operation of the AWWT multimedia filters
    - Completed design of AWWT ion exchange regeneration system using brine, and initiated construction
    - Initiated design of biodenitrification bypass pipeline
    - Awarded contract to begin construction of 1800 gpm groundwater treatment expansion to the AWWT
    - Continued drilling of Injection Demonstration module injection wells
  - SCEP
    - Submitted Draft Geotechnical Study for the Former Production Area to DOE on January 22, 1997
    - Met with Natural Resources Committee of the FCTF to discuss the Sitewide Excavation Plan and provide a specific briefing on the Natural Resource Restoration Plan on January 29, 1997
    - Continued assessment of analytical data associated with ongoing Comparability Study
    - Prepared responses to additional comments received from OEPA on the Natural Resource Impact Assessment
    - Certification assessment was progressing for the On-Site Disposal Facility support areas
    - Comments from DOE and other reviewers on the Site-Wide Excavation Plan were being addressed and incorporated
    - Parsons was developing the Project Order Plan for Area 1, Phase II (Preliminary Design) based on the completed Statement of Work
    - Comments from the Agencies on the Remedial Action Work Plan for Area 1, Phase I were being addressed as they were received

**February 1997**

- Enforceable Milestones Completed
  - Aquifer Restoration Project (ARP)/Advanced Waste Water Treatment (AWWT)
    - Submitted South Plume Optimization and Injection Demonstration Pre-Final Design packages to Agencies on February 3, 1997
    - Submitted the Annual RCRA Report (which included the RCRA annual groundwater monitoring data) to OEPA on February 28, 1997. The actual milestone date was March 1, 1997
    - Submitted the Ohio Department of Natural Resources Water Report on February 28, 1997. The actual milestone date was March 1, 1997

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT MARCH 1 - 31, 1997 AND QUARTERLY  
REPORT JANUARY 1 THROUGH MARCH 31, 1997 INCLUDING EFFLUENT RADIATION  
REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

- SCEP
  - None
- Major Work Initiated/Completed
  - ARP/AWWT
    - Issued Notice-to-Proceed for construction of 1800 gpm groundwater treatment expansion to the AWWT on February 13, 1997
    - Awarded contract for Parking Lot Stormwater Runoff Diversion project February 24, 1997
  - SCEP
    - Continued assessment of analytical data associated with ongoing Comparability Study
    - Development of the Area 1, Phase I Certification Report was ongoing
    - Met with Natural Resource Trustees on February 25, 1997, to discuss latest revision of the Natural Resources Impact Assessment, further revisions to the Natural Resource Restoration Plan (NRRP), and the method to address ecological risks as part of the NRRP

March 1997

- Enforceable Milestones Completed
  - Aquifer Restoration Project (ARP)/Advanced Waste Water Treatment (AWWT)
    - Submitted Draft Final Integrated Environmental Monitoring Plan (IEMP) and response-to-comments document to Agencies on March 7, 1997
    - Submitted Restoration Area Verification (RAV) Sampling Program Project Specific Plan response-to-comments document to Agencies on March 27, 1997
    - Submitted Design, Monitoring, and Evaluation Program Plan (DMEPP) to Agencies on March 27, 1997; actual milestone date is April 1, 1997
  - SCEP
    - None

(Note: A request for extension was granted, as documented in a letter from James Saric, USEPA, to Johnny Reising, USDOE, dated March 7, 1997, for the following four interrelated March 1997 milestones: Area 1, Phase I Certification Report, due March 1, 1997; Insitu Radiological Characterization Comparability Study Report, due March 14, 1997; Sitewide Excavation Plan, due March 14, 1997; and Area 2, Phase I [Southern Waste Units] Integrated Remedial Design Work Package, due March 14, 1997. The new due date for the A1, PI Certification Report is July 1, 1997; the remainder of the related milestones are currently due July 14, 1997.)

- Major Work Initiated/Completed

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT MARCH 1 - 31, 1997 AND QUARTERLY  
REPORT JANUARY 1 THROUGH MARCH 31, 1997 INCLUDING EFFLUENT RADIATION  
REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

- ARP/AWWT
  - Completed RAV geoprobe field sampling in March 1997
  - Began construction of sewers in east parking lot in support of the Parking Lot Stormwater Diversion Project on March 17, 1997
  - Granted permission to contractor to mobilize on project for the 1800 gpm groundwater treatment expansion to the AWWT facility
- SCEP
  - Discussed Ecological Constituents of Concerns reviews with USEPA representatives on March 25, 1997
  - Continued assessment of analytical data associated with ongoing Comparability Study
  - Continued development of the Area 1, Phase I Certification Report
  - Continued additional sampling in OSDF support facilities including Area 1, Subareas A, B, B1, pump station, and the sediment basin

**April 1997 (Anticipated)**

- Enforceable Milestones
  - ARP/AWWT
    - See March Enforceable Milestones for OU5 above; submittal of the DMEPP to the Agencies on March 27, 1997, meets the milestone date of April 1, 1997
    - Submit Baseline Remedial Strategy Report to Agencies on April 11, 1997
    - Submit Draft Final RAWP for Aquifer Restoration to Agencies on April 11, 1997
  - SCEP
    - None
- Major Work to be Initiated/Completed
  - ARP/AWWT
    - Begin design efforts on the following:
      - Sludge Removal Equipment Installation Project - this project addresses periodic sludge removal from the Storm Water Retention Basin (SWRB) and the Bionitrification Surge Lagoon (BSL)
      - Volatile Organic Carbon (VOC) Facility - addresses future pre-treatment of RCRA wastewaters containing VOC contaminants prior to discharge to the AWWT
      - General Sump phaseout activities
    - Award contract for site work package to prepare for construction of new Sewage Treatment Plant adjacent to the AWWT facility

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT MARCH 1 - 31, 1997 AND QUARTERLY  
REPORT JANUARY 1 THROUGH MARCH 31, 1997 INCLUDING EFFLUENT RADIATION  
REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

- SCEP
  - Send collected samples from Area 1, Subareas A, B, B1, and the pump station (all OSDF support facilities) for analysis
  - Forward to DOE a draft position paper proposing a path forward for review of Ecological Constituents of Concern

**WASTE MANAGEMENT**

**January 1997**

- Enforceable Milestones Completed
  - None
- Major Work Initiated/Completed
  - Low Level Waste
    - Shipped 900.00 m<sup>3</sup> low level waste to Nevada Test Site (NTS)
  - Mixed Waste Treatment Projects
    - Shipped 305.00 m<sup>3</sup> mixed waste to Envirocare
    - Treated 0.20 m<sup>3</sup> mixed waste in the Waste Water Treatment System
    - Shipped 11.00 m<sup>3</sup> in the Hazardous Waste/Recycling Project
    - Chemical Treatment Projects
      - Treated 82.00 m<sup>3</sup> in the NPDS Project

**February 1997**

- Enforceable Milestones Completed
  - None
- Major Work Initiated/Completed
  - Low Level Waste
    - Shipped 750.70 m<sup>3</sup> low level waste to Nevada Test Site (NTS)
  - Mixed Waste Treatment Projects
    - Chemical Treatment Projects
      - Treated 8.00 m<sup>3</sup> in the Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project

**March 1997**

- Enforceable Milestones Completed
  - None



**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT MARCH 1 - 31, 1997 AND QUARTERLY  
REPORT JANUARY 1 THROUGH MARCH 31, 1997 INCLUDING EFFLUENT RADIATION  
REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT**

- Major Work Initiated/Completed
  - Low Level Waste
    - Shipped 635.00 m<sup>3</sup> low level waste to Nevada Test Site (NTS)
  - Mixed Waste Treatment Projects
    - Chemical Treatment Projects
      - Treated 6.00 m<sup>3</sup> in the  
Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project
    - Shipped Lab Pack for Hazardous Waste Recycling Project to Heritage  
Environmental of Indianapolis, Indiana on March 6, 1997

**April 1997 (Anticipated)**

- Enforceable Milestones
  - None
- Major Work to be Initiated/Completed
  - Chemical Treatment Projects
    - Complete and transmit Work Plan for the Treatment, Storage, and Disposal  
Facility (TSDF) Project to DOE
    - Initiate sampling of Thoria Gel containers from Building 60 for Thorium  
Stabilization Project on April 9, 1997
    - Complete RCI Solvent Extraction Project Hazards and Operability Analysis;  
conduct project ribbon cutting ceremony on April 15, 1997

**THORIUM OVERPACK PROJECT UPDATE**

All figures cumulative for the project as of March 31, 1997

- Overpacked 4,489 drums, this is 80.16% of the goal to overpack  
approximately 5600 drums
- Filled 765 Thorium Overpack Containers (TOCs)
- Shipped 729 TOCs, this is 95.29% of filled TOCs

**As of March 21, 1997, with 4,200 out of a projected total of 5,600 drums  
overpacked, TOP reached the 75% completion level. This project remains well  
ahead of schedule and could possibly be completed ahead of the originally  
anticipated April 1998 completion date, resulting in significant cost savings.**

**ATTACHMENT A**

**EFFLUENT RADIATION REPORTS**

# EFFLUENT RADIATION REPORT

683

JANUARY 1997

## PARSHALL FLUME (Effluent to Great Miami River 11O00004001)

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	68,663,000	N/A	N/A	N/A	6.43	N/A
Avg (2)	2,215,000	16	50	25	0.21	8
Max	3,997,000	57	97	111	1.68	38
Min	1,539,000	7	14	9	0.09	3

## STORMWATER RETENTION BASIN BYPASSES

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	1,303,000	N/A	N/A	N/A	1.23	N/A
Avg (2)	652,000	133	67	249	0.04	6
Max	1,177,000	160	120	317	1.08	107
Min	126,000	130	61	242	0.15	82

## STORMWATER RETENTION BASIN OVERFLOWS

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	0	N/A	N/A	N/A		N/A
Avg (2)						
Max						
Min						

- (1) The activity of this discharge has been and will continue to be reported as Uranium-238 (pCi/l) in accordance with the Ohio EPA format for reporting uranium. Since this does not account for the activity of the other uranium isotopes in the effluent, the total uranium data is also presented. The calculated Total U-238 is based on a conversion factor of 337.84 pCi U-238/mg Total U applied to the measured value of total uranium.
- (2) Average values presented are flow-weighted.
- (3) Analytical results not yet available.

SOUTH PLUME WELLFIELD				SOUTH FIELD LEACHATE SYSTEM	
	Flow (gallons)	Total U (ug/l)	Total U (kg)	Quarterly Sampling Required No Sample Collected This Month East Sump	
Total	44,821,000	N/A	3.20	Solids	mg/l
Avg (2)	1,446,000	18.9	0.10	Total U	ug/l
Max	2,060,000	38.1	0.23	West Sump	
Min	346,000	12.6	0.02	Solids	mg/l
STORMWATER RUNOFF TO PADDY'S RUN				Total U	ug/l
Precipitation	2.98 in			Total Gallons	
Total U	8.47 kg				

000019

# EFFLUENT RADIATION REPORT

683

FEBRUARY 1997

## PARSHALL FLUME (Effluent to Great Miami River 11O00004001)

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	55,364,000	N/A	N/A	N/A	3.16	N/A
Avg (2)	1,977,000	10	40	15	0.11	5
Max	2,890,000	28	91	46	0.21	16
Min	1,178,000	7	14	5	0.03	2

## STORMWATER RETENTION BASIN BYPASSES

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	0	N/A	N/A	N/A		
Avg (2)						
Max						
Min						

## STORMWATER RETENTION BASIN OVERFLOWS

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	0	N/A	N/A	N/A		
Avg (2)						
Max						
Min						

- (1) The activity of this discharge has been and will continue to be reported as Uranium-238 (pCi/l) in accordance with the Ohio EPA format for reporting uranium. Since this does not account for the activity of the other uranium isotopes in the effluent, the total uranium data is also presented. The calculated Total U-238 is based on a conversion factor of 337.84 pCi U-238/mg Total U applied to the measured value of total uranium.
- (2) Average values presented are flow-weighted.
- (3) Analytical results not yet available.

SOUTH PLUME WELLFIELD				SOUTH FIELD LEACHATE SYSTEM	
	Flow (gallons)	Total U (ug/l)	Total U (kg)	Quarterly Sampling Required No Sample Collected This Month East Sump	
Total	39,274,000	N/A	1.71	Solids	
Avg (2)	1,403,000	12	0.06	Total U	
Max	1,795,000	21	0.10		
Min	268,000	2	0.01	West Sump	
STORMWATER RUNOFF TO PADDY'S RUN				Solids	
				Total U	
Precipitation	2.28 in				
Total U	6.48 kg			Total Gallons	

000020

# EFFLUENT RADIATION REPORT

683

MARCH 1997

## PARSHALL FLUME (Effluent to Great Miami River 11000004001)

	Flow (gallons)	Total (3) Alpha (pCi/l)	Total (3) Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	74,846,000	N/A	N/A	N/A	9.23	N/A
Avg (2)	2,414,000	19	29	33	0.30	8
Max	4,157,000	100	77	150	2.36	51
Min	1,640,000	3	19	7	0.05	2

## STORMWATER RETENTION BASIN BYPASSES

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	3,225,000	N/A	N/A	N/A	4.58	N/A
Avg (2)	1,075,000	290	150	375	1.53	128
Max	1,345,000	290	150	445	2.27	150
Min	590,000	290	150	295	0.88	100

## STORMWATER RETENTION BASIN OVERFLOWS

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	0	N/A	N/A	N/A		
Avg (2)						
Max						
Min						

- (1) The activity of this discharge has been and will continue to be reported as Uranium-238 (pCi/l) in accordance with the Ohio EPA format for reporting uranium. Since this does not account for the activity of the other uranium isotopes in the effluent, the total uranium data is also presented. The calculated Total U-238 is based on a conversion factor of 337.84 pCi U-238/mg Total U applied to the measured value of total uranium.
- (2) Average values presented are flow-weighted.
- (3) Complete analytical results not yet available.

SOUTH PLUME WELLFIELD				SOUTH FIELD LEACHATE SYSTEM	
	Flow (gallons)	Total U (ug/l)	Total U (kg)	Quarterly Sampling Required Sample Collected 3/26/97 East Sump	
Total	53,712,000	N/A	2.67	Solids	22 mg/l
Avg (2)	1,733,000	13	0.09	Total U	386.5 ug/l
Max	1,985,000	21	0.12	West Sump	
Min	1,264,000	3	0.02	No Sample Collected - Access Road to Sampling site Closed Due to Construction.	
STORMWATER RUNOFF TO PADDY'S RUN				No flow recorded for the month	
Precipitation	5.54 in				
Total U	15.74 kg				

000021

**ATTACHMENT B**

**RADON REPORTS**

# **CONSOLIDATED CONSENT AGREEMENT / FEDERAL FACILITY COMPLIANCE AGREEMENT/ FEDERAL FACILITY AGREEMENT MONTHLY PROGRESS REPORT**

**MONTH: JANUARY**  
**YEAR: 1997**

**FACILITY:** Fernald Environmental Management Project  
U.S. Department of Energy  
7400 Willey Road, P.O. Box 538704  
Cincinnati, Ohio 45253 Hamilton

## **SELECTED ENVIRONMENTAL MONITORING RADON CONCENTRATIONS REPORT**

(all values in pCi/L are non-instrument background corrected)

Report Generated:  
04/16/97

Daily Averages	AMS 5	AMS 6	PILOT PLANT WAREHOUSE	BKGD 1 (AMS 11)	BKGD 2 (Miami town)	K65.NW	K65.SW	K65.NE	K65.SE
	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)
01/01/87	0.7	0.8	0.5	0.8	0.8	1.8	4.1	2.9	1.8
01/02/87	0.8	0.8	0.5	0.5	0.8	0.7	0.9	2.4	0.9
01/03/87	0.8	0.7	0.4	0.5	0.8	1.2	1.9	3.0	1.7
01/04/87	0.8	0.8	0.4	0.4	0.8	0.8	0.8	0.9	0.9
01/05/87	0.8	0.7	0.5	0.8	0.8	0.7	0.9	4.3	2.2
01/08/87	0.8	0.7	0.5	0.7	0.7	0.9	1.0	(b)	4.0
01/07/87	0.8	0.7	0.4	0.8	0.7	0.9	N/A	(b)	4.2
01/08/87	1.0	1.0	0.5	0.8	0.9	2.3	N/A	(b)	8.8
01/09/87	0.8	1.1	0.4	0.7	0.8	2.4	N/A	(b)	4.0
01/10/87	1.1	0.9	0.5	0.9	(d)	0.9	1.9	(d)	N/A
01/11/87	1.5	1.0	0.4	N/A	(d)	1.2	N/A	(d)	N/A
01/12/87	1.5	0.9	0.5	N/A	(d)	1.1	N/A	(d)	N/A
01/13/87	1.5	1.0	1.8	1.2	(d)	1.2	N/A	(d)	N/A
01/14/87	1.9	1.4	3.3	1.0	(d)	1.2	3.0	(d)	N/A
01/15/87	1.5	1.3	2.4	1.4	(d)	1.0	14.5	3.1	(b)
01/16/87	1.1	0.9	2.6	1.0	(d)	0.9	1.7	(d)	0.8
01/17/87	1.8	0.9	3.7	N/A	(d)	1.1	N/A	(d)	0.7
01/18/87	1.2	1.0	3.0	0.9	(d)	1.0	5.8	(d)	3.2
01/19/87	1.2	1.0	2.4	0.9	(d)	0.9	3.8	4.0	23.2
01/20/87	0.8	0.8	1.8	0.7	(d)	0.7	2.2	2.3	4.9
01/21/87	1.1	1.0	1.7	1.0	(d)	0.9	3.8	4.8	5.1
01/22/87	0.8	0.8	1.3	0.5	(d)	0.5	0.7	0.5	2.2
01/23/87	0.7	0.7	1.4	0.8	(d)	0.7	1.3	2.8	2.7
01/24/87	0.7	1.2	1.8	0.8	(d)	0.8	3.8	13.5	3.8
01/25/87	0.7	0.7	1.7	0.8	(d)	0.8	1.0	0.5	6.2
01/26/87	0.8	0.7	1.7	0.8	(d)	0.7	6.7	2.2	8.1
01/27/87	0.8	1.1	1.5	0.8	(d)	0.7	4.2	6.4	2.8
01/28/87	0.7	0.7	1.8	0.8	(d)	0.8	1.0	0.5	3.4
01/29/87	0.8	0.8	1.7	0.8	(d)	0.7	3.9	6.2	11.2
01/30/87	0.8	0.7	1.8	0.8	(d)	0.8	5.3	4.2	17.9
01/31/87	0.7	0.7	1.3	0.8	(d)	0.8	0.8	0.7	3.8

### Monthly Statistics

	AMS 5	AMS 6	PILOT	BKGD 1	BKGD 2	K65.NW	K65.SW	K65.NE	K65.SE
AVERAGE:	1.0	0.9	1.4	0.7	0.8	2.9	3.0	8.3	4.3
MAXIMUM:	1.9	1.4	3.7	1.4	1.2	14.5	13.5	31.8	12.9
MINIMUM:	0.8	0.8	0.4	0.4	0.5	0.7	0.5	0.9	0.9
MEDIAN:	0.8	0.8	1.5	0.8	0.7	1.8	0.8	4.8	1.9
STD. DEV:	0.4	0.2	0.9	0.2	0.2	2.8	2.8	7.8	3.1

- STANDARD LEGEND:
1. "(a)" indicates edited data (>10%) due to erroneous readings from the monitoring equipment.
  2. "(b)" indicates partial or complete data loss (>10%) due to monitor malfunction.
  3. "(c)" indicates partial or complete data loss (>10%) due to programming error in monitor.
  4. "(d)" indicates edited data (>10%) due to operation outside of manufacturer's temperature specifications.

# CONSOLIDATED CONSENT AGREEMENT / FEDERAL FACILITY COMPLIANCE AGREEMENT/ FEDERAL FACILITY AGREEMENT MONTHLY PROGRESS REPORT

**MONTH:** JANUARY  
**YEAR:** 1997

**FACILITY:** Fernald Environmental Management Project  
U.S. Department of Energy  
7400 Willey Road, P.O. Box 538704  
Cincinnati, Ohio 45253 Hamilton

## K-65 SILO REPORT RADON CONCENTRATIONS

Summary of Continuous Monitoring Results

Report Date: 04/16/97

Daily Statistics	SILO 1				SILO 2			
	Average	Maximum	Minimum	Std. Dev.	Average	Maximum	Minimum	Std. Dev.
01/01/97	1.00E+07	1.02E+07	9.39E+06	1.01E+05	7.31E+06	7.55E+06	7.00E+06	1.22E+05
01/02/97	9.67E+06	1.01E+07	1.16E+05	1.70E+06	7.05E+06	7.49E+06	-1.72E+05	1.29E+06
01/03/97	9.73E+06	1.02E+07	9.33E+06	1.39E+05	7.21E+06	7.42E+06	6.77E+06	1.08E+05
01/04/97	9.58E+06	9.69E+06	9.22E+06	7.69E+04	7.16E+06	7.36E+06	6.74E+06	1.27E+05
01/05/97	9.83E+06	9.98E+06	9.66E+06	8.45E+04	6.95E+06	7.26E+06	6.12E+06	5.84E+06
01/06/97	9.71E+06	9.88E+06	9.41E+06	1.14E+05	6.49E+06	6.43E+06	4.00E+06	5.26E+06
01/07/97	9.63E+06	9.87E+06	9.05E+06	2.00E+05	5.97E+06	6.77E+06	4.24E+06	7.42E+05
01/08/97	9.99E+06	1.04E+07	9.71E+06	1.56E+05	5.78E+06	6.36E+06	5.07E+06	3.68E+05
01/09/97	1.09E+07	1.12E+07	1.04E+07	2.18E+05	6.04E+06	6.96E+06	4.43E+06	4.62E+05
01/10/97	1.08E+07	1.13E+07	1.90E+05	1.72E+06	5.34E+06	6.28E+06	-7.93E+04	1.12E+06
01/11/97	7.84E+06	1.09E+07	6.20E+06	1.21E+06	3.28E+06	5.04E+06	2.42E+06	5.04E+06
01/12/97	4.71E+06	6.71E+06	1.36E+06	1.47E+06	4.02E+06	5.42E+06	2.59E+06	1.31E+06
01/13/97	1.68E+06	3.78E+06	7.23E+05	1.07E+06	3.77E+06	5.17E+06	2.22E+06	1.22E+06
01/14/97	5.29E+06	9.73E+06	7.03E+05	4.00E+06	4.34E+06	6.10E+06	1.18E+06	2.59E+06
01/15/97	9.82E+06	1.05E+07	1.26E+05	1.14E+06	6.53E+06	6.40E+06	-1.73E+05	1.60E+06
01/16/97	9.93E+06	1.05E+07	9.23E+06	3.17E+05	5.60E+06	5.69E+06	2.63E+06	9.1E+06
01/17/97	9.18E+06	9.50E+06	6.38E+06	2.62E+05	4.02E+06	5.35E+06	2.53E+06	1.39E+06
01/18/97	8.66E+06	9.53E+06	6.67E+06	7.74E+05	5.12E+06	7.29E+06	3.19E+06	1.47E+06
01/19/97	8.77E+06	9.23E+06	7.73E+06	3.37E+05	6.89E+06	6.10E+06	4.78E+06	1.10E+06
01/20/97	9.31E+06	1.04E+07	7.99E+06	5.98E+05	8.02E+06	8.59E+06	7.13E+06	3.49E+05
01/21/97	1.01E+07	1.05E+07	9.68E+06	2.38E+05	8.35E+06	8.85E+06	7.56E+06	4.41E+05
01/22/97	1.05E+07	1.06E+07	1.02E+07	6.99E+04	8.63E+06	8.85E+06	7.89E+06	2.10E+05
01/23/97	1.01E+07	1.05E+07	9.47E+06	2.17E+05	7.95E+06	8.55E+06	7.34E+06	2.67E+05
01/24/97	1.00E+07	1.04E+07	9.71E+06	2.05E+05	8.01E+06	8.53E+06	7.44E+06	3.69E+05
01/25/97	9.80E+06	1.03E+07	9.16E+06	2.56E+05	6.64E+06	6.38E+06	3.93E+06	1.18E+06
01/26/97	9.40E+06	9.52E+06	9.14E+06	7.09E+04	6.29E+06	7.50E+06	4.29E+06	1.04E+06
01/27/97	9.80E+06	1.03E+07	7.71E+06	2.28E+05	8.02E+06	8.59E+06	5.27E+06	3.30E+05
01/28/97	9.23E+06	9.88E+06	1.32E+05	1.01E+06	6.04E+06	7.97E+06	-1.73E+05	1.03E+06
01/29/97	9.27E+06	9.49E+06	8.95E+06	1.27E+05	5.41E+06	6.14E+06	4.26E+06	1.31E+06
01/30/97	9.66E+06	1.00E+07	3.90E+06	4.20E+05	7.49E+06	8.21E+06	2.91E+06	5.25E+05
01/31/97	1.02E+07	1.76E+07	3.25E+06	6.37E+05	7.70E+06	8.30E+06	1.57E+06	5.38E+05

### Headspace Grab Sample Results

Date:	SILO 1	SILO 2
01/02/97	8.74E+06	7.80E+06
01/07/97	9.28E+06	6.97E+06
01/15/97	1.02E+07	7.69E+06
01/20/97	1.03E+07	8.07E+06
01/23/97	9.01E+06	8.83E+06
01/28/97	9.10E+06	8.74E+06
01/30/97	9.90E+06	7.63E+06

**NOTES:** Negative values may occur when input values from the DAQ system are low, due to regression parameters used in determining concentrations. The low value phenomenon is caused by problems associated with the DAQ system (i.e. power surges, equipment failure, grab sampling, etc.).

Shaded cells indicate instruments operation outside of Manufacturer's suggested temperature range, resulting in reduced daily averages.

### STANDARD LEGEND:

1. All values reported in pCi/L.
2. Data reported to three significant digits to remain consistent with the calibration data.
3. Shaded Cells indicate partial/complete data loss due to equipment malfunction.

000024



## MONTHLY PROGRESS REPORT

MONTH: FEBRUARY  
YEAR: 1997

FACILITY: Fernald Environmental Management Project  
U.S. Department of Energy  
7400 Willey Road, P.O. Box 538704  
Cincinnati, Ohio 45253 Hamilton

### SELECTED ENVIRONMENTAL MONITORING RADON CONCENTRATIONS REPORT

Report Generated:  
04/16/97

Daily Averages	AMS 5		AMS 6		PILOT PLANT WAREHOUSE		AMS 11 Background		BKGD 2 (Miami town)		K65.NW		K65.SW		K65.NE		K65.SE	
	(pCi/L)		(pCi/L)		(pCi/L)		(pCi/L)		(pCi/L)		(pCi/L)		(pCi/L)		(pCi/L)		(pCi/L)	
02/01/97	0.7		0.7		1.4		0.8		0.7		1.7		3.9		4.9		5.3	
02/02/97	0.9		1.1		1.5		0.8		0.8		3.1		4.4		4.0		4.4	
02/03/97	0.7		0.8		1.3		0.5		0.8		0.7		5.1		1.1		1.1	
02/04/97	0.7		1.0		1.4		0.8		0.8		1.7		8.9		2.8		1.8	
02/05/97	0.8		0.8		1.4		0.5		0.5		0.8		0.5		3.8		2.9	
02/06/97	0.8		0.8		1.4		0.4		0.8		2.1		2.0		8.1		8.3	
02/07/97	0.8		0.7		1.4		0.8		0.7		2.8		3.1		13.3		11.1	
02/08/97	0.8		0.8		1.4		0.5		0.8		0.8		0.5		1.1		1.2	
02/08/97	0.8		0.8		1.5		0.8		0.8		1.5		2.2		9.3		8.9	(a)
02/10/97	0.7		0.7		1.5		0.8		0.7		3.0		3.2		12.9		10.8	
02/11/97	0.7		0.7		1.4		0.5		0.8		1.0		1.4		8.1		3.8	
02/12/97	0.7		0.7		1.5		0.8		0.7		0.8		0.7		2.7		2.3	
02/13/97	0.8		1.1		1.7		0.8		0.7		1.5		11.3		1.5		2.7	(a)
02/14/97	0.7		0.8		1.5		0.8		0.7		1.0		2.1		8.1		4.1	
02/15/97	0.7		0.7		1.4		0.8		0.7		1.1		1.5		4.0		4.0	
02/16/97	0.8		0.8		1.8		0.8		0.7		3.0		3.7		11.7		10.2	
02/17/97	0.7		0.7		1.4		0.8		0.8		2.7		4.2		8.5		5.9	
02/18/97	0.8		0.8		1.2		0.5		0.5		0.7		0.8		4.1		1.8	
02/18/97	0.7		0.7		1.2		0.8		0.8		0.7		0.8		2.5		1.7	
02/20/97	1.1		1.3		1.5		0.9		0.8		3.5		8.8		4.2		4.0	
02/21/97	0.8		0.8		1.2		0.5		0.5		1.1		0.5		1.0		0.8	
02/22/97	0.8		0.7		1.3		0.5		0.8		0.8		0.8		3.2		2.5	
02/23/97	0.8		0.8		1.4		0.8		0.7		1.0		1.0		4.9		3.8	
02/24/97	1.0		1.0		1.5		0.8		0.7		1.4		1.8		5.7		5.2	
02/25/97	0.8		0.8		1.1		0.8		0.7		2.2		3.7		22.7		18.1	
02/26/97	1.4		1.2		1.1		1.2		0.8		7.1		2.8		28.5		25.8	
02/27/97	0.8		0.8		0.4		0.5		0.8		0.8		0.8		1.8		1.3	
02/28/97	0.8		1.0		0.5		0.7		0.7		3.4		5.3		8.8		8.5	

## Monthly Statistics

	AMS 5		AMS 6		PILOT		BKGD 1		BKGD 2		K65.NW		K65.SW		K65.NE		K65.SE	
AVERAGE:	0.8		0.8		1.3		0.8		0.8		1.8		3.0		8.8		5.5	
MAXIMUM:	1.4		1.3		1.7		1.2		0.8		7.1		11.3		28.5		25.8	
MINIMUM:	0.6		0.6		0.4		0.4		0.5		0.8		0.5		1.0		0.8	
MEDIAN:	0.7		0.7		1.4		0.8		0.7		1.4		2.2		4.5		4.0	
STD. DEV:	0.2		0.2		0.3		0.2		0.1		1.4		2.8		8.3		5.3	

- STANDARD LEGEND:
1. "(a)" Indicates edited data due to erroneous readings from the monitoring equipment.
  2. "(b)" Indicates partial or complete data loss due to monitor malfunction.
  3. "(c)" Indicates partial or complete data loss due to programming error in monitor.
  4. All values reported in pCi/L are non instrument background corrected.

000025

# MONTHLY PROGRESS REPORT

683

MONTH: FEBRUARY  
YEAR: 1997

FACILITY: Fernald Environmental Management Project  
U.S. Department of Energy  
7400 Willey Road, P.O. Box 538704  
Cincinnati, Ohio 45253 Hamilton

## K-65 SILO REPORT RADON CONCENTRATIONS

Summary of Continuous Monitoring Results

Report Date: 04/18/97

Daily Statistics	SILO 1				SILO 2			
	Average	Maximum	Minimum	Std. Dev.	Average	Maximum	Minimum	Std. Dev.
02/01/97	1.03E+07	1.05E+07	9.94E+06	9.62E+04	7.90E+06	8.24E+06	7.35E+06	2.03E+05
02/02/97	1.01E+07	1.02E+07	9.76E+06	7.17E+04	7.94E+06	8.20E+06	7.43E+06	1.40E+05
02/03/97	9.61E+06	1.01E+07	1.20E+05	6.30E+05	7.29E+06	8.03E+06	-1.72E+05	5.65E+05
02/04/97	9.83E+06	1.01E+07	9.47E+06	2.03E+05	7.82E+06	8.07E+06	7.43E+06	1.84E+05
02/05/97	9.45E+06	9.83E+06	8.90E+06	1.96E+05	7.09E+06	7.66E+06	6.61E+06	2.14E+05
02/06/97	8.53E+06	9.34E+06	1.80E+05	1.00E+05	7.39E+06	8.09E+06	-7.12E+04	8.26E+05
02/07/97	9.02E+06	9.99E+06	5.96E+06	7.16E+05	7.72E+06	8.05E+06	3.79E+06	3.22E+05
02/08/97	9.38E+06	9.69E+06	8.94E+06	1.52E+05	7.37E+06	7.66E+06	6.69E+06	1.88E+05
02/09/97	9.45E+06	1.01E+07	8.69E+06	4.62E+05	ERR	ERR	ERR	ERR
02/10/97	9.34E+06	1.01E+07	8.59E+06	4.12E+05	7.45E+06	8.15E+06	2.35E+06	8.09E+05
02/11/97	9.99E+06	1.02E+07	9.54E+06	1.36E+05	7.64E+06	7.98E+06	2.05E+06	4.02E+05
02/12/97	1.00E+07	1.02E+07	9.27E+06	1.96E+05	7.34E+06	7.65E+06	6.61E+06	2.00E+05
02/13/97	9.26E+06	9.72E+06	5.39E+06	3.83E+05	8.62E+06	7.81E+06	4.04E+06	7.73E+05
02/14/97	1.02E+07	1.05E+07	9.63E+06	2.32E+05	7.60E+06	7.81E+06	7.20E+06	1.38E+05
02/15/97	9.74E+06	1.02E+07	8.99E+06	2.33E+05	7.18E+06	7.46E+06	5.30E+06	3.58E+05
02/16/97	9.31E+06	9.67E+06	8.89E+06	1.66E+05	6.50E+06	7.32E+06	4.92E+06	6.75E+05
02/17/97	9.46E+06	9.93E+06	8.79E+06	3.85E+05	7.17E+06	7.61E+06	5.23E+06	4.58E+05
02/18/97	9.94E+06	1.02E+07	9.67E+06	1.05E+05	7.11E+06	7.59E+06	6.39E+06	3.07E+05
02/19/97	9.73E+06	1.01E+07	1.16E+05	1.63E+06	6.77E+06	7.42E+06	-1.71E+05	1.16E+06
02/20/97	9.78E+06	1.00E+07	8.04E+06	2.11E+05	6.72E+06	6.84E+06	2.04E+06	2.89E+05
02/21/97	1.02E+07	1.04E+07	9.71E+06	1.36E+05	6.72E+06	6.87E+06	6.07E+06	1.59E+05
02/22/97	9.50E+06	1.03E+07	9.02E+06	3.29E+05	6.06E+06	6.37E+06	5.45E+06	2.13E+05
02/23/97	9.10E+06	9.29E+06	8.77E+06	1.34E+05	6.17E+06	6.39E+06	5.69E+06	1.39E+05
02/24/97	9.10E+06	9.31E+06	8.68E+06	1.31E+05	6.30E+06	6.46E+06	5.92E+06	1.28E+05
02/25/97	9.36E+06	9.77E+06	4.80E+06	3.50E+05	6.37E+06	6.55E+06	3.20E+06	2.20E+05
02/26/97	9.92E+06	1.02E+07	9.65E+06	1.49E+05	6.55E+06	6.71E+06	6.31E+06	8.99E+04
02/27/97	1.01E+07	1.03E+07	6.34E+06	2.75E+05	6.37E+06	6.65E+06	4.14E+06	2.41E+05
02/28/97	9.58E+06	9.86E+06	8.48E+06	1.45E+05	6.21E+06	6.42E+06	5.50E+06	1.19E+05

### Headspace Grab Sample Results

Date:	SILO 1	SILO 2
02/03/97	9.97E+06	7.31E+06
02/06/97	8.77E+06	8.12E+06
02/10/97	9.12E+06	8.36E+06
02/13/97	1.01E+07	7.56E+06
02/19/97	1.00E+07	7.55E+06
02/20/97	8.85E+06	7.71E+06
02/25/97	8.68E+06	7.34E+06
02/27/97	9.90E+06	6.69E+06

NOTES: Negative values may occur when input values from the DAQ system are low, due to regression parameters used in determining concentrations. The low value phenomenon is caused by problems associated with the DAQ system (i.e. power surges, equipment failure, grab sampling, etc.).

Shaded cells indicate instruments operation outside of Manufacturer's suggested temperature range, resulting in reduced daily averages.

### STANDARD LEGEND:

1. All values reported in pCi/L.
2. Data reported to three significant digits to remain consistent with the calibration data.
3. Shaded Cells indicate partial/complete data loss due to equipment malfunction.

000026

# CONSOLIDATED CONSENT AGREEMENT / FEDERAL FACILITY COMPLIANCE AGREEMENT/ FEDERAL FACILITY AGREEMENT MONTHLY PROGRESS REPORT

MONTH: MARCH  
YEAR: 1997

FACILITY: Fernald Environmental Management Project  
U.S. Department of Energy  
7400 Willey Road, P.O. Box 538704  
Cincinnati, Ohio 45253 Hamilton

## SELECTED ENVIRONMENTAL MONITORING RADON CONCENTRATIONS REPORT

Report Generated:  
04/16/97

Daily Averages	AMS 5		AMS 6		PILOT PLANT		AMS 11		BKGD 2		K65,NW		K65,SW		K65,NE		K65,	
	WAREHOUSE		Background 1		Miami		town											
	(pCi/L)		(pCi/L)		(pCi/L)		(pCi/L)		(pCi/L)		(pCi/L)		(pCi/L)		(pCi/L)		(pCi/L)	
03/01/97	0.8		0.7		0.4		0.5		0.8		3.5		1.4		1.3		1.0	
03/02/97	0.8		0.7		0.4		0.5		0.8		2.2		1.8		2.5		4.0	
03/03/97	0.8		0.8		0.4		0.5		0.8		0.9		8.7		1.0		1.3	
03/04/97	0.8		0.7		0.4		0.5		0.8		1.4		1.4		3.2		2.1	
03/05/97	1.1	(c)	1.1	(c)	0.5		0.8		0.8		5.9		4.5		4.8		5.8	
03/06/97	0.8	(c)	0.8	(c)	0.5		0.8		0.8		0.8		0.8		4.3		3.4	
03/07/97	0.7		0.8		0.5		0.8		0.8		2.8		1.9		4.8		3.0	
03/08/97	0.5		0.8		0.4		0.8		0.8		0.8		0.8		1.8		1.1	
03/09/97	0.8		0.9		0.5		0.7		0.8		2.9		4.9		1.4		1.4	
03/10/97	0.8		0.7		0.4		0.8		0.8		0.9		0.7		5.8		3.5	
03/11/97	0.8		0.8		0.7		0.7		0.7		1.7		1.6		12.8		8.4	
03/12/97	0.8		0.8		0.5		0.8		0.7		1.3		3.1		2.8		2.7	
03/13/97	0.8		1.1		0.4		0.8		0.8		1.8		12.1		1.0		1.0	
03/14/97	0.8		0.8		0.4		0.5		0.8		1.7		1.3		2.8		2.3	
03/15/97	0.8		0.7		0.4		0.5		0.8		0.8		0.5		3.2		4.1	
03/16/97	0.8		0.8		0.8		0.8		0.7		5.2		1.9		7.0		5.9	
03/17/97	0.8		0.7		0.4		0.5		0.8		1.3		1.1		8.1		3.1	
03/18/97	0.7	(c)	0.9		0.5		0.8		0.8		3.0		5.0		1.3		1.3	
03/19/97	N/A	(c)	0.7		0.4		0.5		0.8		2.1		1.4		7.8		6.9	
03/20/97	N/A	(c)	0.9		0.8		0.8		0.7		8.3		7.8		28.7		18.8	
03/21/97	0.5	(c)	1.0		0.8		0.8		0.7		1.3		1.9		18.5		19.4	
03/22/97	0.8		0.7		0.4		0.8		0.8		0.7		0.8		1.8		2.5	
03/23/97	0.7		0.8		0.5		0.7		0.8		1.5		1.7		7.7		6.3	
03/24/97	0.5		0.8		0.4		0.5		0.8		5.8		2.8		1.0		1.2	
03/25/97	0.8		0.7		0.4		0.5		0.8		2.7		1.0		1.8		1.2	
03/26/97	0.8		0.7		0.4		0.5		0.8		0.8		0.8		4.8		3.3	
03/27/97	0.7		0.8		0.5		0.5		0.7		1.5		2.2		6.4		4.7	
03/28/97	1.1		1.1		0.8		1.0		0.7		3.4		4.0		7.2		11.4	
03/29/97	0.8		0.7		0.4		0.5		0.8		1.1		0.7		3.1		2.0	
03/30/97	0.8		0.7		0.4		0.5		0.8		1.2		0.7		4.2		3.8	
03/31/97	0.8		0.8		0.4		0.5		0.8		0.7		0.8		2.4		3.2	

### Monthly Statistics

	AMS 5		AMS 6		PILOT		BKGD 1		BKGD 2		K65,NW		K65,SW		K65,NE		K65,	
AVERAGE:	0.7		0.8		0.5		0.8		0.8		2.3		2.5		5.3		4.8	
MAXIMUM:	1.1		1.1		0.8		1.0		0.7		8.3		12.1		28.7		18.8	
MINIMUM:	0.5		0.8		0.4		0.5		0.8		0.8		0.5		1.0		1.0	
MEDIAN:	0.8		0.8		0.4		0.8		0.8		1.5		1.8		3.7		3.2	
STD. DEV:	0.1		0.1		0.1		0.1		0.1		1.8		2.6		5.7		4.7	

STANDARD LEGEND: 1. "(a)" indicates edited data due to erroneous readings from the monitoring equipment.  
2. "(b)" indicates partial or complete data loss due to monitor malfunction.

# CONSOLIDATED CONSENT AGREEMENT / FEDERAL FACILITY COMPLIANCE AGREEMENT/ FEDERAL FACILITY AGREEMENT MONTHLY PROGRESS REPORT

MONTH: MARCH  
YEAR: 1997

FACILITY: Fernald Environmental Management Project  
U.S. Department of Energy  
7400 Willey Road, P.O. Box 538704  
Cincinnati, Ohio 45253 Hamilton

## K-65 SILO REPORT RADON CONCENTRATIONS

Summary of Continuous Monitoring Results

Report Date: 04/16/97

Daily Statistics	SILO 1				SILO 2			
	Average	Maximum	Minimum	Std. Dev.	Average	Maximum	Minimum	Std. Dev.
03/01/97	9.57E+06	9.69E+06	9.44E+06	7.10E+04	6.30E+06	6.42E+06	6.18E+06	6.52E+04
03/02/97	9.33E+06	9.59E+06	8.98E+06	1.89E+05	6.31E+06	6.40E+06	5.99E+06	8.01E+04
03/03/97	8.91E+06	9.06E+06	8.62E+06	8.74E+04	6.14E+06	6.30E+06	5.58E+06	1.49E+05
03/04/97	9.07E+06	9.28E+06	8.71E+06	9.55E+04	6.21E+06	6.33E+06	5.88E+06	7.16E+04
03/05/97	9.20E+06	9.35E+06	8.56E+06	1.39E+05	6.17E+06	6.29E+06	5.71E+06	1.20E+05
03/06/97	8.75E+06	9.00E+06	3.36E+05	5.46E+05	5.66E+06	6.01E+06	2.80E+06	2.69E+05
03/07/97	8.77E+06	9.15E+06	8.24E+06	2.13E+05	5.96E+06	6.14E+06	5.69E+06	1.04E+05
03/08/97	9.07E+06	9.26E+06	8.51E+06	1.43E+05	5.86E+06	6.13E+06	5.37E+06	1.50E+05
03/09/97	9.07E+06	9.30E+06	8.68E+06	1.44E+05	6.09E+06	6.23E+06	5.66E+06	1.22E+05
03/10/97	9.15E+06	9.41E+06	8.65E+06	1.39E+05	6.04E+06	6.20E+06	5.77E+06	8.87E+04
03/11/97	9.06E+06	9.47E+06	2.05E+05	1.22E+06	5.86E+06	6.26E+06	-1.00E+05	8.21E+05
03/12/97	9.01E+06	9.16E+06	8.68E+06	8.89E+04	5.93E+06	6.05E+06	5.68E+06	5.94E+04
03/13/97	9.07E+06	1.29E+07	5.16E+06	3.41E+05	5.91E+06	8.44E+06	3.34E+06	2.54E+05
03/14/97	9.45E+06	9.68E+06	8.96E+06	1.57E+05	5.98E+06	6.21E+06	5.36E+06	2.53E+05
03/15/97	9.10E+06	9.23E+06	8.94E+06	6.28E+04	5.72E+06	5.95E+06	5.38E+06	1.18E+05
03/16/97	9.25E+06	9.51E+06	9.05E+06	1.33E+05	5.92E+06	6.16E+06	5.14E+06	2.25E+05
03/17/97	9.66E+06	9.78E+06	9.46E+06	7.43E+04	6.05E+06	6.28E+06	5.60E+06	1.35E+05
03/18/97	9.60E+06	9.81E+06	1.54E+06	5.87E+05	6.21E+06	6.34E+06	-7.21E+04	4.96E+05
03/19/97	9.56E+06	9.89E+06	9.24E+06	1.50E+05	4.58E+06	6.31E+06	-1.33E+05	2.69E+06
03/20/97	9.76E+06	1.00E+07	2.94E+06	5.97E+05	-1.32E+05	-4.19E+04	-1.57E+05	7.23E+03
03/21/97	9.76E+06	1.01E+07	1.05E+05	1.08E+06	2.74E+06	6.46E+06	-1.34E+05	3.14E+06
03/22/97	9.69E+06	1.01E+07	9.26E+06	2.47E+05	6.23E+06	6.40E+06	6.02E+06	7.82E+04
03/23/97	9.22E+06	9.45E+06	8.55E+06	2.09E+05	6.05E+06	6.33E+06	5.43E+06	1.95E+05
03/24/97	8.91E+06	9.43E+06	8.15E+06	4.70E+05	6.00E+06	6.28E+06	5.43E+06	2.68E+05
03/25/97	9.61E+06	9.47E+06	2.41E+05	1.33E+06	5.73E+06	6.24E+06	-9.94E+04	8.63E+05
03/26/97	8.80E+06	9.04E+06	8.41E+06	1.08E+05	6.03E+06	6.13E+06	5.71E+06	7.24E+04
03/27/97	8.60E+06	8.89E+06	8.10E+06	2.09E+05	5.96E+06	6.14E+06	5.63E+06	1.25E+05
03/28/97	8.88E+06	9.19E+06	8.46E+06	1.11E+05	6.10E+06	6.18E+06	5.81E+06	6.60E+04
03/29/97	9.04E+06	9.23E+06	8.30E+06	1.18E+05	6.04E+06	6.20E+06	-7.21E+04	3.79E+05
03/30/97	8.66E+06	8.88E+06	8.51E+06	8.29E+04	6.04E+06	6.14E+06	5.77E+06	6.09E+04
03/31/97	8.40E+06	8.52E+06	4.83E+06	1.93E+05	5.92E+06	6.03E+06	3.35E+06	1.64E+05

### Headspace Grab Sample Results

Date:	SILO 1	SILO 2
03/04/97	9.15E+06	6.59E+06
03/06/97	8.17E+06	6.51E+06
03/11/97	8.32E+06	6.64E+06
03/13/97	9.29E+06	6.39E+06
02/18/97	9.79E+06	6.74E+06
03/20/97	6.65E+06	8.52E+06
03/25/97	6.38E+06	6.65E+06
03/26/97	6.65E+06	6.54E+06
03/31/97	6.84E+06	6.57E+06

NOTES: Negative values may occur when input values from the DAQ system are low, due to regression parameters used in determining concentrations. The low value phenomenon is caused by problems associated with the DAQ system (i.e. power surges, equipment failure, grab sampling, etc.).

Shaded cells indicate instruments operation outside of Manufacturer's suggested temperature range, resulting in reduced daily averages.

### STANDARD LEGEND:

1. All values reported in pCi/L.
2. Data reported to three significant digits to remain consistent with the calibration data.

000028

# ATTACHMENT C

## REMOVAL ACTION STATUS REPORT

REMOVAL ACTION NAME	#	STATUS	CLOSURE DATE	SCOPE	COMMENT
Extraction of Water Under FEMP Buildings AKA: Plant 6 Contaminated Perched Water	1	Field Work Complete	See Comments	Pump water from extraction wells underneath Plants 2/3, 6, 8, and 9. Treat extracted water for volatile organic chemicals and uranium removal before discharge	Documentation is being prepared to satisfy CERCLA requirements to close Administrative Record closure of Removal Actions.
Waste Pit Area Runoff Control	2	Field Work Complete	See Comments	Collect and treat contaminated storm water run-off from the waste pit area	Documentation is being prepared to satisfy CERCLA requirements to close Administrative Record closure of Removal Actions
South Plume	3	Field Work Complete	See Comments	Collect and treat contaminated storm water from waste pit area, install new alternate water supply, pump and discharge groundwater from South Plume, install and operate interim Advanced Waste Water Treatment System, Conduct groundwater monitoring and institutional controls, conduct groundwater modeling and geochemical investigation	Documentation is being prepared to satisfy CERCLA requirements to close Administrative Record closure of Removal Actions
Silo 1 and 2	4	Closed	May 17, 1994	Install bentonite cap to reduce and monitor radon emissions, provide follow-on monitoring	
K-65 Decant Sump Tank	5	Closed	March 5, 1993	Periodically remove liquid from K-65 decant sump tank	
Waste Pit 6 - Exposed Material	6	Closed	March 25, 1992	Eliminate potential airborne contamination by resubmerging exposed pit material	
Plant One Pad Continuing Release	7	Closed	February 16, 1995	Implement run-on/off control, install new pad, and upgrade existing Plant 1 Storage Pad	
Inactive Flyash Piles/ South Field Area	8	Field Work Complete	See Comments	Install plastic chain link barrier and post warning signs	Documentation is being prepared to satisfy CERCLA requirements to close Administrative Record closure of Removal Actions
Removal of Waste Inventory	9	Ongoing	See Comments	Disposition of low-level waste off-site	This Removal Action has been incorporated into the OU3 Record of Decision for Final Remedial Action and will be closed with concurrence for U.S. EPA. Any follow-on records generated in association with the scope of this removal action will be documented in the OU3 Post-ROD file. Completion reports for this removal action will be submitted at the conclusion of the scope and approval of the completion report will represent formal closeout of the removal action.
Active Flyash Pile Controls	10	Field Work Complete	See Comments	Complete interim surface stabilization and complete active Flyash pile controls	Documentation is being prepared to satisfy CERCLA requirements to close Administrative Record closure of Removal Actions
Pit 5 Experimental Treatment Facility (ETS)	11	Closed	April 22, 1992	Remove contents, structure, and filter material. Backfill and cap with clay cover	

REMOVAL ACTION NAME	#	STATUS	CLOSURE DATE	SCOPE	COMMENT
Safe Shutdown	12	Ongoing	See Comments	Remove uranium and other material from former processing equipment and ship material and equipment off-site	This Removal Action has been incorporated into the OU3 Record of Decision for Final Remedial Action and will be closed with concurrence for U.S. EPA. Any follow-on records generated in association with the scope of this removal action will be documented in the OU3 Post-ROD file. Completion reports for this removal action will be submitted at the conclusion of the scope and approval of the completion report will represent formal closeout of the removal action
Plant 1 Ore Silos	13	Closed	November 6, 1995	Dismantle fourteen ore silos and their support structures	
Contaminated Soils Adjacent to Solid Waste Incinerator at the Sewage Treatment Plant	14	Closed	January 3, 1995	Isolate or remove and dispose of contaminated soils from the vicinity of the sewage treatment plant	
Scrap Metals Pile	15	Closed	November 14, 1994	Disposition of LLW Ferrous/non-ferrous scrap metal, Containerize and dispose of scrap copper	
Collect Uncontrolled Production Area Runoff - Northeast	16	Field Work Complete	See Comments	Collect storm water run-off from the northeast perimeter of the former production area in the Storm Water Retention Basin	Documentation is being prepared to satisfy CERCLA requirements to close Administrative Record closure of Removal Actions
Improved Storage of Soil and Debris	17	Ongoing	See Comments	Improve storage of existing and future generated soils and debris	This Removal Action has been incorporated into the OU3 Record of Decision for Final Remedial Action and will be closed with concurrence for U.S. EPA. Any follow-on records generated in association with the scope of this removal action will be documented in the OU3 Post-ROD file. Completion reports for this removal action will be submitted at the conclusion of the scope and approval of the completion report will represent formal closeout of the removal action
Control Exposed Material in Pit 5	18	Closed	May 13, 1993	Eliminate potential airborne contamination by re-submerging exposed pit material	
Plant 7 Dismantling	19	Closed	August 18, 1995	Dismantle and dispose of the Plant 7 structure	
Uranium Nitrate Neutralization Project	20	Closed	January 16, 1997	Neutralize, filter and package UNH inventory	
Silo 3	21	Closed	February 24, 1993	Mitigate the potential release of hazardous waste material by covering and sealing dust collector hopper, removing dust collector, and capping and covering obvious release pathways	
Waste Pit Area Containment Improvement	22	Closed	August 1, 1993	Stabilize south barrier of Pit 4; regarding drainage ditches along Pits 3, 4, 5, and 6; and resurface road between Pits 3, 4, 5, and 6	
Inertive Flyash Pile	23	Field Work Complete	See Comments	Conduct field investigation to identify locations requiring material removal	Documentation is being prepared to satisfy CERCLA requirements to close Administrative Record closure of Removal Actions
Pilot Plant Sump	24	Closed	January 14, 1994	Remove liquid and sludge from the sump	

REMOVAL ACTION NAME	#	STATUS	CLOSURE DATE	SCOPE	COMMENT
Nitric Acid Rail Car	25	Closed	November 12, 1993	Remove residual contents from tank car and decontaminate and dispose of tank car	
Asbestos Removal	26	Ongoing	See Comments	Mitigate the potential for contaminant and migration of asbestos fibers	This Removal Action has been incorporated into the OU3 Record of Decision for Final Remedial Action and will be closed with concurrence for U.S. EPA. Any follow-on records generated in association with the scope of this removal action will be documented in the OU3 Post-ROD file. Completion reports for this removal action will be submitted at the conclusion of the scope and approval of the completion report will represent formal closeout of the removal action
Management of Contaminated Structures	27	Ongoing	See Comments	Submit and Engineering Evaluation/Cost Analysis for managing contaminated structures. Identify alternatives for managing contaminated structures	The scope of this Removal Action involved the remediation of 25 OU3 structures and has been integrated into and superseded by the concept of the OU3 interim remedial action. Therefore, disposition of Removal Action 27 was accomplished by the approval of the OU3 Proposed Plan/Environmental Assessment for Interim Remedial Action: as such, this file should be considered closed.
Fire Training Facility	28	Closed	July 11, 1995	Remove, decontaminate, dispose, treat or store contaminated structures, equipment, and soil from the former Fire Training Facility	
Erosion Control of Inactive Flyash Pile; AKA: Temporary Nitrate Storage Tanks	29	Closed	March 2, 1994	Mitigate the threat of erosion induced slope failure and discharge of flyash to Paddy's Run	
KC2 Warehouse Well	30	Field Work Complete	See Comments	Minimize future groundwater contamination by intercepting contaminated seeps that drain from the South Field and Inactive Flyash Pile and infiltrate to the GMA	Documentation is being prepared to satisfy CERCLA requirements to close Administrative Record closure of Removal Actions
South Field and Inactive Flyash Piles Seepage Control Project	31	Closed	December 6, 1995		This is also improperly referred to as Removal Action 30

000032